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29 August 1955

MEMORANDUM FOR THE RECORD

SUBJECT: Chart Showing Status of Hole-Drilling Projects as of 29 August 1955

APC Division

[Redacted]

25X1

<u>Subject</u>	<u>Status</u>	<u>Remarks</u>
Masonry Drilling. Proposal was all-inclusive and not specific.	Proposal submitted to Hole-Drilling Panel and was rejected.	It was felt that [Redacted] was not the best organization to do work in this field; that their proposal cost-wise, was much too high.

25X1

National Bureau of Standards

Wall-Thickness Measurement Gauge. Feasibility of Ultrasonic measurement and type of equipment which might be used.	Proposal accepted and work now in progress. Final results expected in 3-4 months
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Chemical Division

[Redacted]

25X1

Chemical decomposition of concrete and mortar.	Awaiting security approval of prospective contractors.	These companies do contract research work on cement and concrete.
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[Redacted]

25X1

Wall-Thickness measurement.	Feasibility study and calculations now underway.	Use back-scattering of neutrons.
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[Redacted]

25X1

Awaiting security approval.	This company does contract research work on cement and concrete
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JUST 22	EXT REV 2010	AUTH: HR 10-2

Engineering Division**CONFIDENTIAL**

25X1

<u>Subject</u>	<u>Status</u>	<u>Remarks</u>
<p>Proposal covers:</p> <ul style="list-style-type: none"> <li>a. Survey of batteries to be used to run motors.</li> <li>b. Survey of d.c. motors to determine feasibility of battery-operated, quiet, drills.</li> <li>c. Preliminary masonry drilling tests with available equipment.</li> <li>d. Report of results and conclusions - \$6360 - 4 mos.</li> </ul>	Being considered.	This proposal is essentially for a survey of one method for penetrating walls, together with testing to gain experience. Since a number of contractors will be involved, it would be desirable to separate the drilling for experience from the work on a quiet power unit if specifications for the power unit can be agreed upon.

25X1

<p>Proposal covers a general study of the present state of the art and consideration of new method of wall penetration. Suggests work on:</p> <ul style="list-style-type: none"> <li>a. Supersonic drilling.</li> <li>b. Jet of abrasive particle in liquid or air.</li> <li>c. Rubber bit impregnated with diamonds - \$9754 - 6 mos.</li> </ul>	<p>This proposal was written in a very general form. A new proposal on one of the suggested methods will be required.</p>
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<p>Proposal covers a first phase for:</p> <ul style="list-style-type: none"> <li>a. Survey of commercial equipment.</li> <li>b. Tests of borrowed commercial equipment to determine what could be used and what should be developed for our purposes.</li> <li>c. Report of results and recommendations - \$4500 - 4 mos.</li> </ul>	Being considered.	<p>This proposal is similar in scope to the two above. Our action will be to decide which contractors should work on the various aspects of the problem since there is considerable duplication in the survey phase.</p>
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Engineering Division (Cont'd)

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<u>Subject</u>	<u>Status</u>	<u>Remarks</u>	
The proposal covers the construction of a testing facility to consist of a building (10'x20') with heat and power. Test walls would be constructed inside in order to simulate drilling in a room. Sound level measuring equipment and 20 weeks of testing are included. - \$17 000 - 1 year.	Discussions are underway to decide in more detail what our requirements are.	This proposal seems quite reasonable although the facility described is somewhat different than we had at first envisioned.	
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This separate proposal covers work on an actual pipepusher.	It has been decided to accept this proposal as it stands. It has the informal approval of ASD.		
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General proposal - will welcome new ideas.	Holding proposal for additional clearances before submitting it to us.		25X1
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General Proposal - will welcome new ideas		Awaiting proposal.	
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Explosive projectile such as used by carpenters to nail lumber to concrete.		Their chief engineer was very pessimistic about helping us when we discussed the problem with him, so they may not submit.	
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	General proposal.	Visited by our Engineer, but not expected to submit.	

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TSS/Chemical Division